

## Message Text

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ACTION NSF-02

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FM AMEMBASSY NEW DELHI

TO SECSTATE WASHDC 7158

UNCLAS NEW DELHI 10397

DEPT PASS TO NSF FOR EDWARDS

E.O. 11652: N/A

TAGS: USINJC, TPHY, TECH, IN

SUBJECT: JOINT SUBCOMMISSION ON SCIENCE AND TECHNOLOGY: SEMINAR  
ON SOLAR AND WIND ENERGY

REF: STATE 170724

1. THE EMBASSY AND INDIAN DEPARTMENT OF SCIENCE AND TECHNOLOGY (DOST) PERCEIVE NO OBJECTION TO PROPOSED LIST OF US SCIENTISTS (REFTEL) TO ATTEND SOLAR AND WIND ENERGY SEMINAR IN NEW DELHI, AUGUST 2-4, 1976. THE DOST HAS ASKED FOR BRIEF BIO DATA ON EACH US PARTICIPANT. BECAUSE OF THE SHORT TIME ELEMENT, BIO DATA SHOULD BE CABLED TO EMBASSY AS SOON AS POSSIBLE.

2. THE INDIAN CONFERENCE PROGRAM ORGANIZERS ARE THE DOST, BHARAT HEAVY ELECTRICALS LTD., COUNCIL FOR SCIENCE AND INDUSTRIAL RESEARCH (CSIR) AND THE CENTRAL ELECTRONICS LTD. THE INDIAN STEERING COMMITTEE IS COMPOSED OF THE FOLLOWING MEMBERS:

1. DR. A. RAMACHANDRAN
2. DR. H.N. SHARAN (BHEL)
3. DR. R.K. SURI (BHEL)
4. DR. U. VENKATESWARLU (CEL)
5. MR. R.C. BHARGAVA, MINISTRY OF ENERGY
6. DR. VG. BHIDE (CSIR)
7. DR. P.K. KATTI (DST)

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8. DR. R.D. DESHPANDE (DST)

3. THE STEERING COMMITTEE HAS PROPOSED THE FOLLOWING SCIENTIFIC AREAS TO BE DISCUSSED AT THE MEETING:

- (A) DEVELOPMENT OF FLAT PLATE COLLECTOR FOR COMMERCIAL LEVEL PRODUCTION.
- (B) DEVELOPMENT OF COMMERCIAL PROCESSES FOR SELECTIVE COATINGS.
- (C) DEVELOPMENT OF FLUIDINE SOLAR WATER PUMP (2-5 HP).
- (E) DEVELOPMENT OF 100 KW SOLAR POWER UNIT.
- (F) DEVELOPMENT OF 1-10 TON VAPOUR ABSORPTION SYSTEM USING LOW TEMPERATURE (90 DEGS C) POTENTIAL HEAT SOURCE.
- (G) DEVELOPMENT OF FLAT PLATE CONFIGURATION, NON-TRACKING TYPE CONCENTRATOR COLLECTORS FOR HIGH TEMPERATURE (150 DEGS C) APPLICATIONS.
- (H) THERMAL ENERGY STORAGE MATERIALS AND SYSTEMS.
- (I) DESIGN AND DEVELOPMENT OF COST EFFECTIVE WIND MILLS OF VERTICAL AND HORIZONTAL TYPES FOR RURAL APPLICATIONS.
- (J) 5-KW WIND MILLS FOR RURAL APPLICATIONS.
- (K) DEVELOPMENT OF CDS SOLAR CELL PANELS.
- (L) DEVELOPMENT OF POLYCRYSTALLINE SILICAN SOLAR CELL PANELS.
- (M) DEVELOPMENT OF SILICAN WATERS IN THE FORM OF RIBBONS.
- (N) EVALUATION OF SOLAR CELL PANELS.

THIS WILL BE DISCUSSED IN THREE DISTINCT GROUPS:

- 1. THERMAL APPLICATIONS
- 2. PHOTO-VOLTAIC APPLICATIONS
- 3. WIND APPLICATIONS

4. A TENTATIVE LIST OF INDIAN PARTICIPANTS APPEARS

BELOW:

THERMAL SOLAR ENERGY:

- 1. DR.M.C. GUPTA  
PROFESSOR OF MECHANICAL ENGINEERING AND HEAD, SOLAR ENERGY LAB., INDIAN INSTITUTE OF TECHNOLOGY, MADRAS-600036
- 2. DR.K.D. MANNAN  
PROFESSOR AND HAD

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DEPARTMENT OF MECHANICAL ENGINEERING  
COLLEGE OF AGRICULTURAL ENGINEERING  
LUDHIANA

- 3. PROF. G. SWARUP  
RADIO ASTRONOMY CENTRE  
TATA INSTITUTE OF FUNDAMENTAL RESEARCH  
P.BOX 8, OCETACAMUND (TAMIL NADU)
- 4. DR. M.V. KRISHNAMURTHY

HEAD OF REFRIG. AND AIR COND. LAB.  
DEPT. OF MECHANICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY

MADRAS-600036

5. PROF. M. RAMAKRISHNARAO  
CENTRAL INSTRUMENTS AND SERVICE LAB.  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE

6. DR. K.S. RAO  
HEAD OF CHEMICAL ENGINEERING  
BIRLA INSTITUTE OF TECH. AND SCIENCE  
PILANI (RAJASTHAN) 333031

7. DR. K.M. BARVE  
M/S JYOTI LIMITED  
BARODA-390003

PHOTO-VOLTAIC APPLICATIONS:

1. MR. U. VENKATESWARLU  
MANAGING DIRECTOR  
CENTRAL ELECTRONICS LTD.  
DEPT. OF SCIENCE AND TECHNOLOGY  
NEW DELHI

2. PROF. K.L. GHOPRA  
PROFESSOR OF PHYSICS  
INDIAN INSTITUTE OF TECHNOLOGY  
NEW DELHI

3. DR. S. MUKHERJEE  
PROFESSOR OF PHYSICS  
JADAVPUR UNIVERSITY, JADAVPUR

6. DR. S.K. KAR  
ASSISTANT PROFESSOR

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INDIAN INSTITUTE OF TECHNOLOGY  
KANPUR

7. DR BRB.R. MARATHE  
ASSISTANT DIRECTOR  
CENTRAL ELECTRONICS ENGINEERING RESEARCH  
INSTITUTE, PILANI

8. DR. A.BHASKAR RAO  
TECHNICAL MANAGER  
ELECTRONICS CORPORATION OF INDIA  
HYDERABAD

9. DR. B.S. MURTHY  
SOLID STATE PHYSICS LABORATORY  
LUCKNOW ROAD, DELHI

WIND APPLICATIONS:

1. DR. NVC SWAMIR  
PROFESSOR OF APPLIED MECHANICS  
INDIAN INSTITUTE OF TECHNOLOGY  
MADRAS 500036
2. DR. S.K. TIWARI  
NATIONAL AERONAUTICAL LABORATORY  
BANGALORE

3. DR. J.P. CHAWLA  
K-74A, HAUZ KHAS  
NEW DELHI

4. DR. V.N. GHATGE  
MANAGING DIRECTOR  
PRODUCT DESIGNERS PRIVATE LTD  
7, BORE, TANK ROAD, BANGALORE 46

5. MR. KARVE  
C/O DR. V.M. GHATGE  
MANAGING DIRECTOR  
PRODUCT DESIGNERS PRIVATE LTD  
7, BORE, TANK ROAD, BANGALORE 46

5. DOST SCIENTISTS AND THE EMBASSY SCIENCE OFFICERS  
ARE WORKING ON AN AGENDA WHICH WILL BE CABLED NEXT  
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WEEK. WE WOULD APPRECIATE NSF COMMENTS AND SUGGESTIONS  
ON THE INDIAN LIST OF  
RESEARCH AREAS TO BE DISCUSSED.

6. WE WOULD STRONGLY RECOMMEND THAT US SCIENTISTS ALLOW  
SUFFICIENT TIME IN INDIA TO VISIT SOME SELECTED  
RESEARCH INSTITUTIONS OUTSIDE OF DELHI THAT WILL BE  
PARTICIPATING IN THE JOINT RESEARCH PROGRAMS. WE ARE  
THINKING PARTICULARLY OF THE INDIAN INSTITUTE OF  
TECHNOLOGY, MADRAS; INDIAN INSTITUTE OF SCIENCE, BANGALORE;  
IIT KANPUR; NATIONAL AERONAUTICS LAB, BANGALORE; AND THE  
TATA INSTITUTE OF FUNDAMENTAL RESEARCH, BOMBAY. WITHOUT  
VISITING THE ACTUAL SITES, IT WOULD BE DIFFICULT, IF NOT  
IMPOSSIBLE, TO MAKE JUDGMENTS  
ON RESEARCH CAPACITY AND  
FACILITIES.

7. THE DOST HAS SUGGESTED THE INDIAN INTERNATIONAL  
CENTER AS THE CONFERENCE VENUE. HOTEL RESERVATIONS  
FOR THE TEAM HAVE BEEN MADE AT THE ASHOKA HOTEL. EMBASSY  
BRIEFING WILL BE ARRANGED FOR AUGUST 1.SAXBE

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